AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

22. (CURRENTLY AMENDED) A method for producing a corn plant comprising the steps of:

(a) co-cultivating an immature embryo from a corn [[cell]] plant with *Agrobacterium* capable of transferring at least one ~~genetic element~~ gene to a cell of said [[cell]] immature embryo to produce an infected embryo;

(b) culturing the infected embryo after said co-cultivation on a medium comprising an antibiotic and a ~~monosaccharide sugar~~ compound selected from the group consisting of glucose, maltose, lactose, sorbitol and mannitol, wherein said ~~sugar~~ compound is ~~being~~ in an amount of from about 5 g/L to about 30g/L;

~~(c) culturing the resulting tissue on a medium comprising a selective agent;~~

~~(d)~~ (c) culturing the resulting tissue on a medium comprising a selective agent to select for transformed tissue;

~~(e)~~ (d) selecting transformed tissue ~~having growing Type II~~; and

~~(f)~~ (e) regenerating ~~plants from embryo structures~~ a plant.

23. (CANCELED)

24. (CURRENTLY AMENDED) The method of claim 22, wherein, said *Agrobacterium* is taken from *Agrobacterium* stock one to two days after rescue from frozen glycerol stocks.

25. (ORIGINAL) The method of claim 22, wherein co-cultivation is performed at a temperature of 19° C.

26. (ORIGINAL) The method of claim 22, wherein a heat shock treatment is applied during co-cultivation, said heat shock treatment comprising a temperature of 35° C to 55° C for 30 minutes to 60 minutes.

27. (PREVIOUSLY PRESENTED) The method of claim 26, wherein said heat shock is performed at about 24 hours to about 72 hours after initiation of co-cultivation.

28. (PREVIOUSLY PRESENTED) The method of claim 22, wherein the concentration of said antibiotic in the medium of step (b) is from about 15 mg/L to about 75 mg/L.